



Board of Sponsors meeting

2009

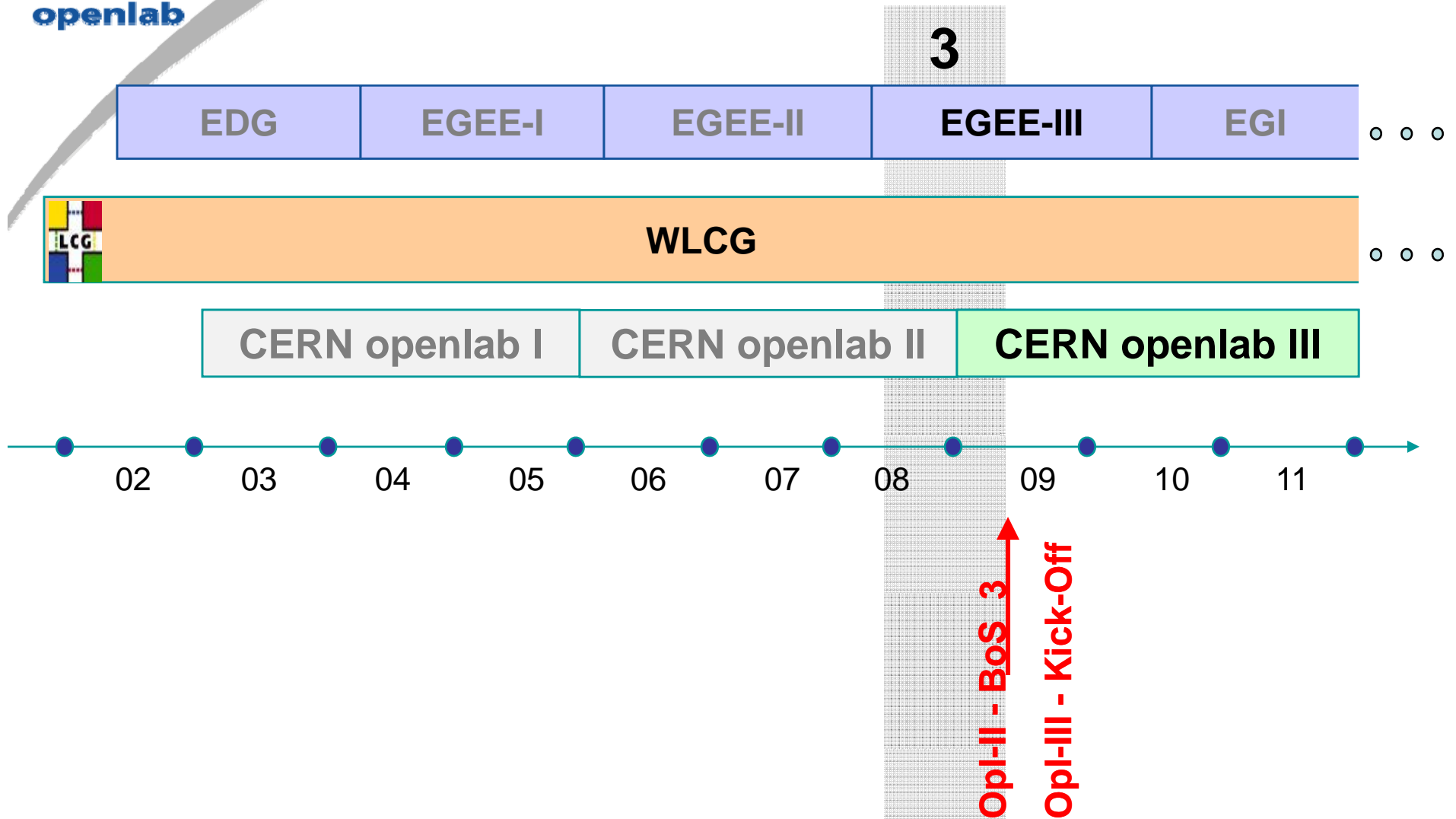
CERN openlab
Overall Status
2008-2009

François Fluckiger
openlab Manager



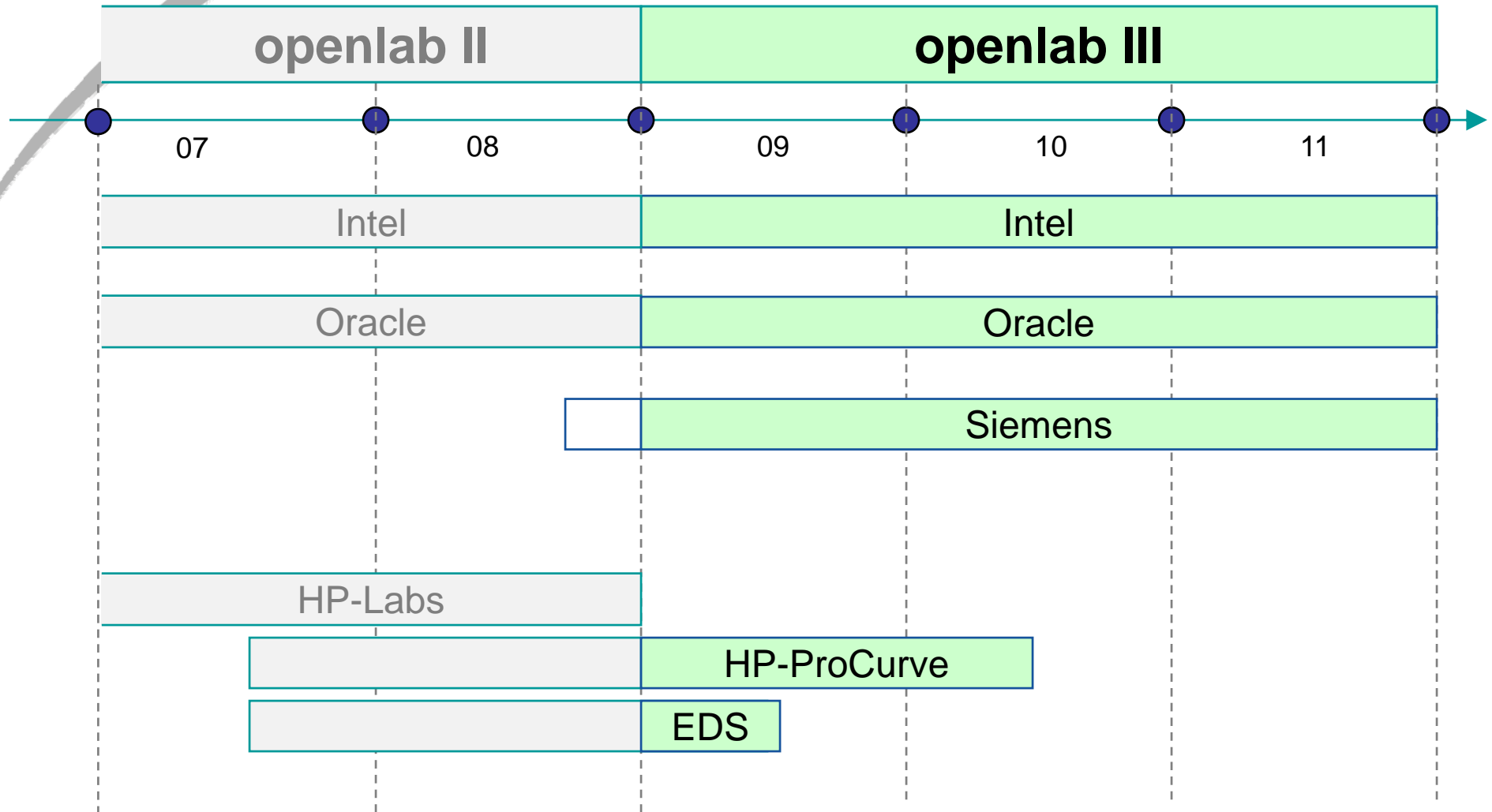


Where are we?





Partnership Status





Partnerships in 2009



- **From Partners / Contributors**
 - Mix of
 - in cash for hiring young personnel
 - in kind for carrying out R&D activities



Young Team in openlab-II Year 3

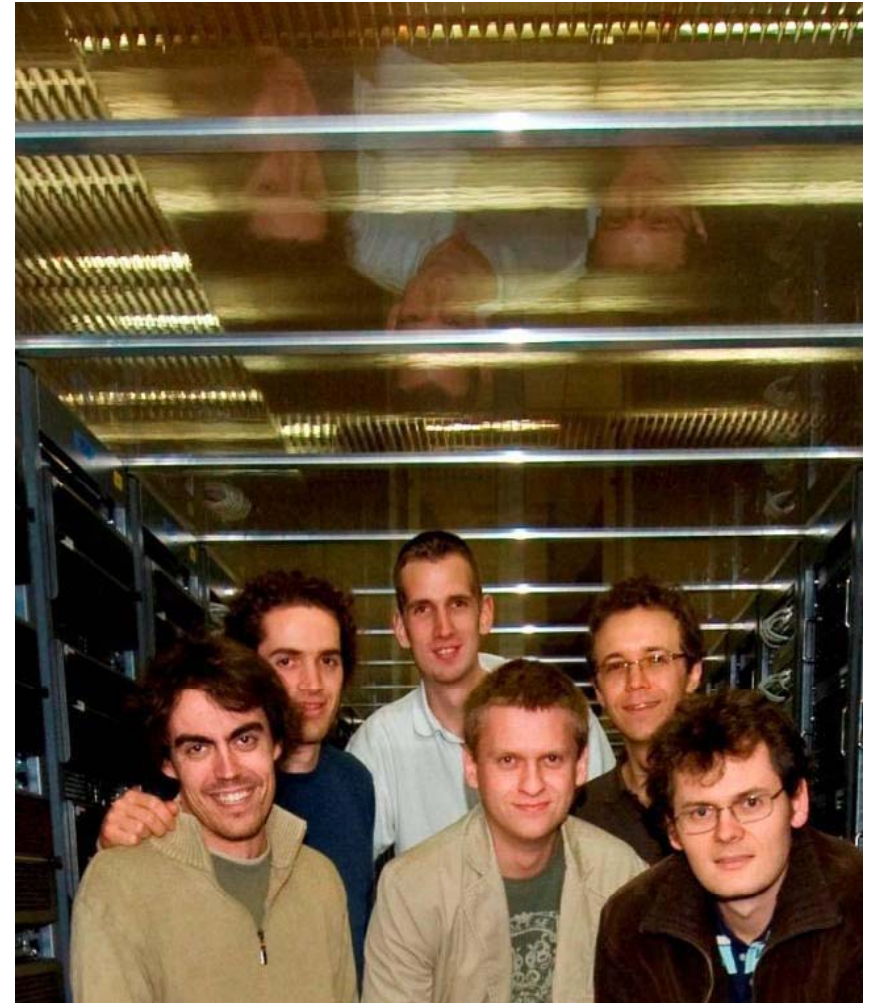
Personnel		FTE		
Partner-sponsored	Fellow	7.6	10.9	12.5
	Staff	3		
	openlab Student	0.3		
CERN-funded	Technical Student openlab Student	1.6	1.6	



CERN openlab Staff and Fellows

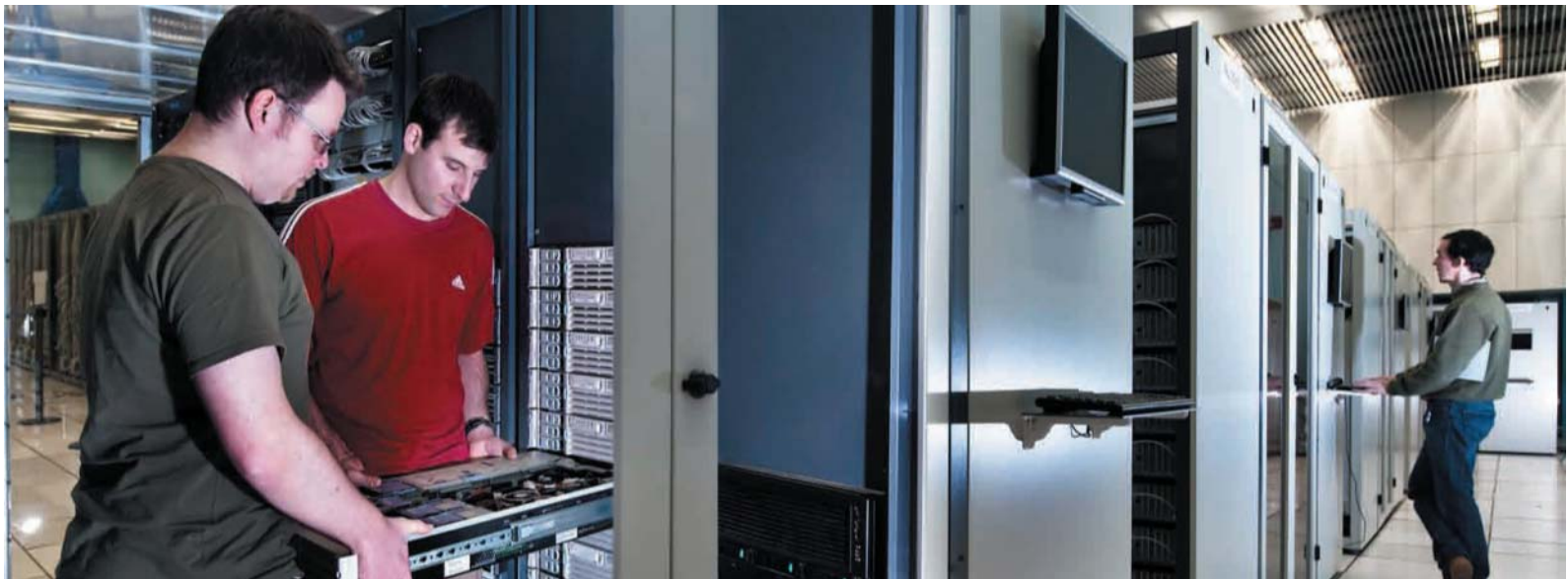
12.5 FTEs

- Gyorgy Balazs Student (CERN)
- Havard Bjerke Fellow (Intel)
- Daniel Rodrigues Fellow (EDS)
- Xavier Gréhant Fellow (HP)
- Milosz Hulboj Fellow (ProCurve)
- Ryszard Jurga Staff (ProCurve)
- Andreas Hirstius Staff (Intel)
- Mélissa le Jeune Fellow (all partners)
- Andrzej Nowak Fellow (EU/CERN)
- Eva Dafonte Perez Staff (Oracle)
- José M. D. Perez Fellow (HP)
- Anton Topurov Fellow (Oracle)
- Dawid Wojcik Fellow (Oracle)
- 5 Summer Students



Young Team in **openlab-III** Year 1

Personnel		FTE		
Partner-sponsored	Fellow	9.5	12.7	14.3
	Staff	3		
	openlab Student	0.2		
CERN-funded	Technical Student openlab Student	1.6	1.6	



CERN openlab Staff and Fellows

14.3 FTEs

- Ildelfons M. de Abril Fellow (Siemens)
- Zbigniew Baranowski Fellow (Oracle)
- Axel Busch Student (CERN)
- Carlos G. Fernandez Fellow (Oracle)
- Daniel Rodrigues Fellow (Siemens)
- Milosz Hulboj Fellow (ProCurve)
- Ryszard Jurga Staff (ProCurve)
- Svetozar Kapusta Fellow (Oracle)
- Omer Khalid Fellow (Siemens)
- Julien Leduc Fellow (Intel)
- Melissa Le Jeune Fellow (all partners)
- Andrzej Nowak Fellow (Intel)
- Eva Dafonte Perez Staff (Oracle)
- José M. D. Perez Fellow (EDS)
- Filippo Tilaro Fellow (Siemens)
- openlab Summer Students



- From Partners
- **From CERN**
 - Technical environment
 - Technical manpower
 - Technical supervision
 - Management resources
 - Communication resources

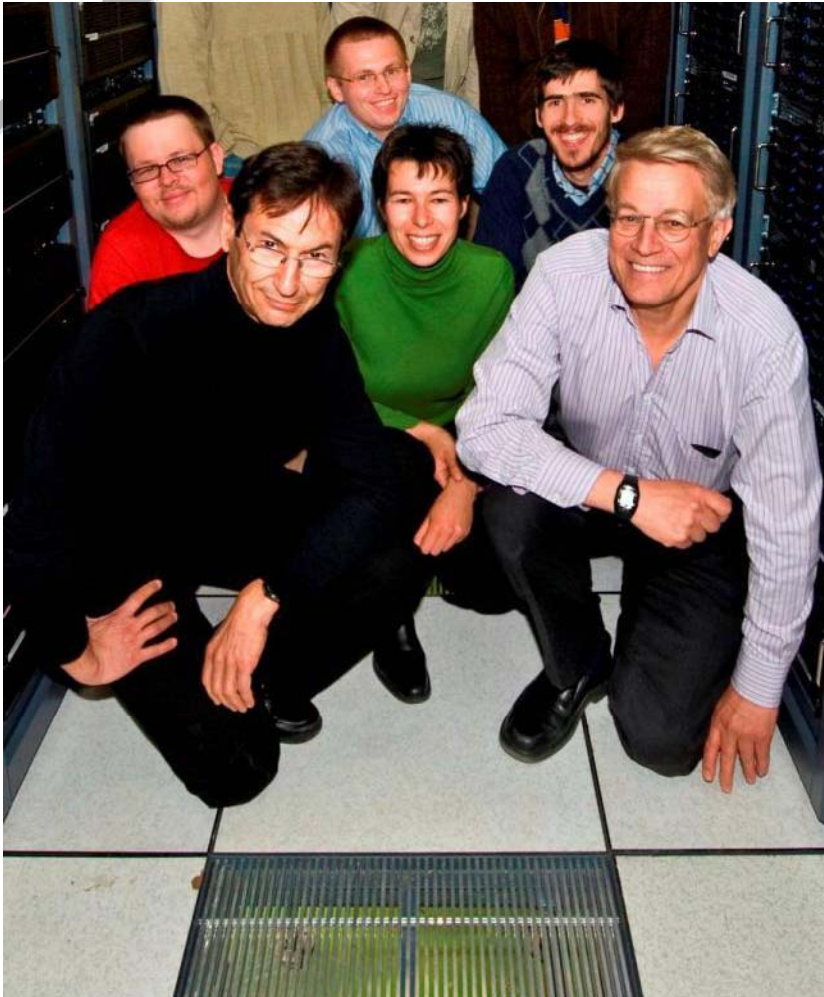




CERN manpower contribution to **openlab-III** Year 1

Role	People involved*
Technical (manpower + supervision)	12
Management and Communication	4
Total	16

* Part time



IT Department staff involved*

16

- Renaud Barillere ICE Group (EN Dpt)
- Dirk Duellmann DM Group
- José C. L. Duran CS Group
- François Flückiger openlab Manager
- Maria Girone DM Group
- Eric Grancher DES Group
- Sverre Jarp openlab CTO
- J-M Jouanigot CS Group leader
- Chris Lambert DES Group
- Melissa Le Jeune Comm. Officer
- Mats Möller DES Group leader
- Alberto Pace DM Group leader
- Séverine Pizzera Admin. Assistance
- Markus Schulz GD Group leader
- Jamie Shiers GS Group leader
- Wolfgang von Rüden openlab Head

* Part time



IT Groups in 2008

IT Groups		
1	Administrative Information Services (AIS)	Reinoud Martens
2	Communication Systems (CS)	David Foster
3	Controls (CO)	Wayne Salter
4	Database and Engineering Services (DES)	Mats Möller
5	Department Infrastructure (DI)	Alan Silverman
6	Data Management (DM)	Alberto Pace
7	EGEE Project (EGE)	Bob Jones
8	Fabric Infrastructure and Operations (FIO)	Tony Cass
9	Grid Deployment (GD)	Markus Schulz
10	Grid Support (GS)	Jamie Shiers
11	Internet Services (IS)	Christian Isnard
12	LCG Project, includes ARDA (LCG)	Ian Bird
13	User and Document Services (UDS)	Tim Smith



IT Groups **involved** in openlab in 2008

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1	Administrative Information Services (AIS)	Reinoud Martens
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11 Groups involved

IT Department

CS

DES

DI

DM

EGEE

FIO

GD

GS

IS

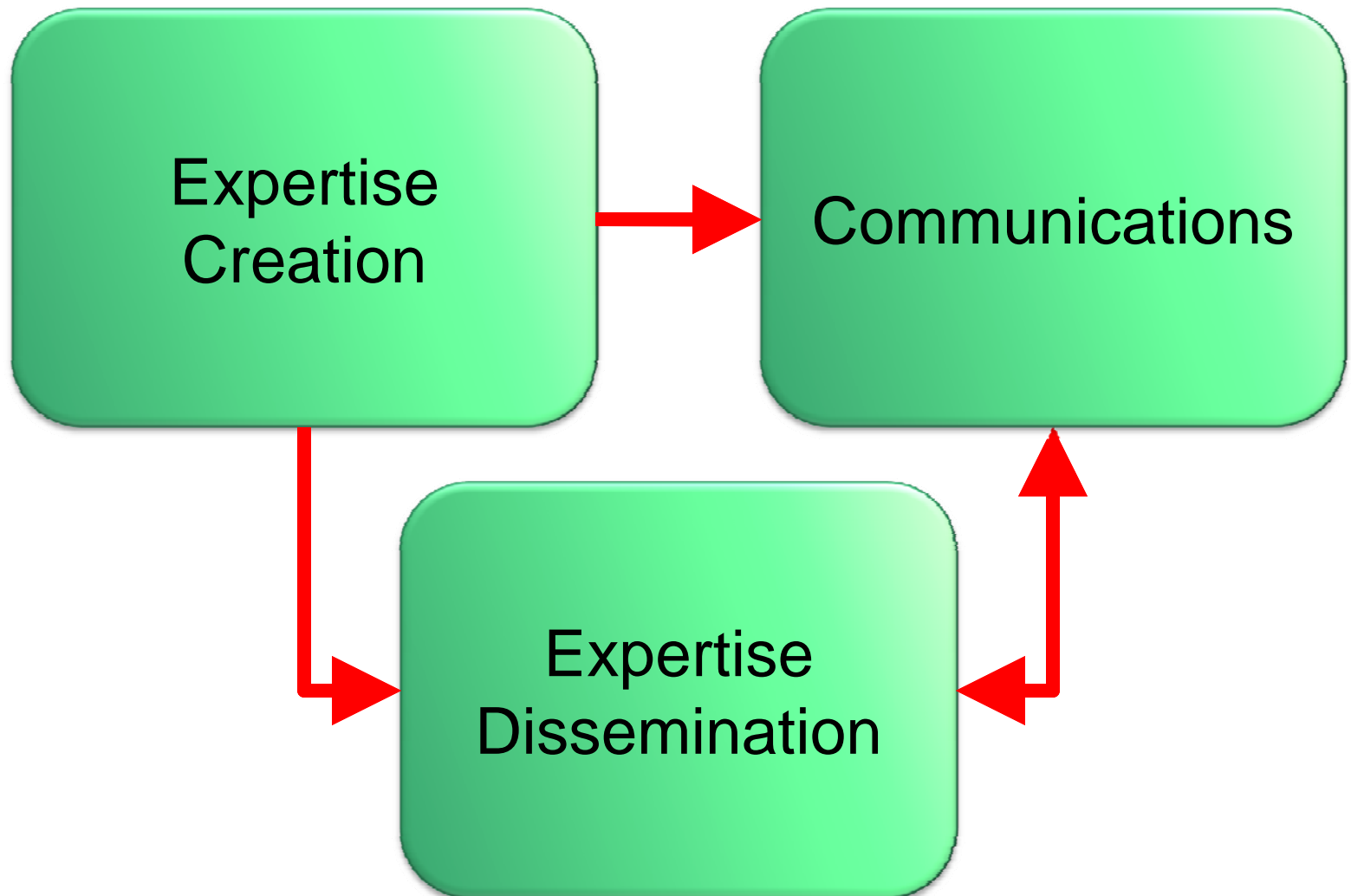
LCG

EN Department

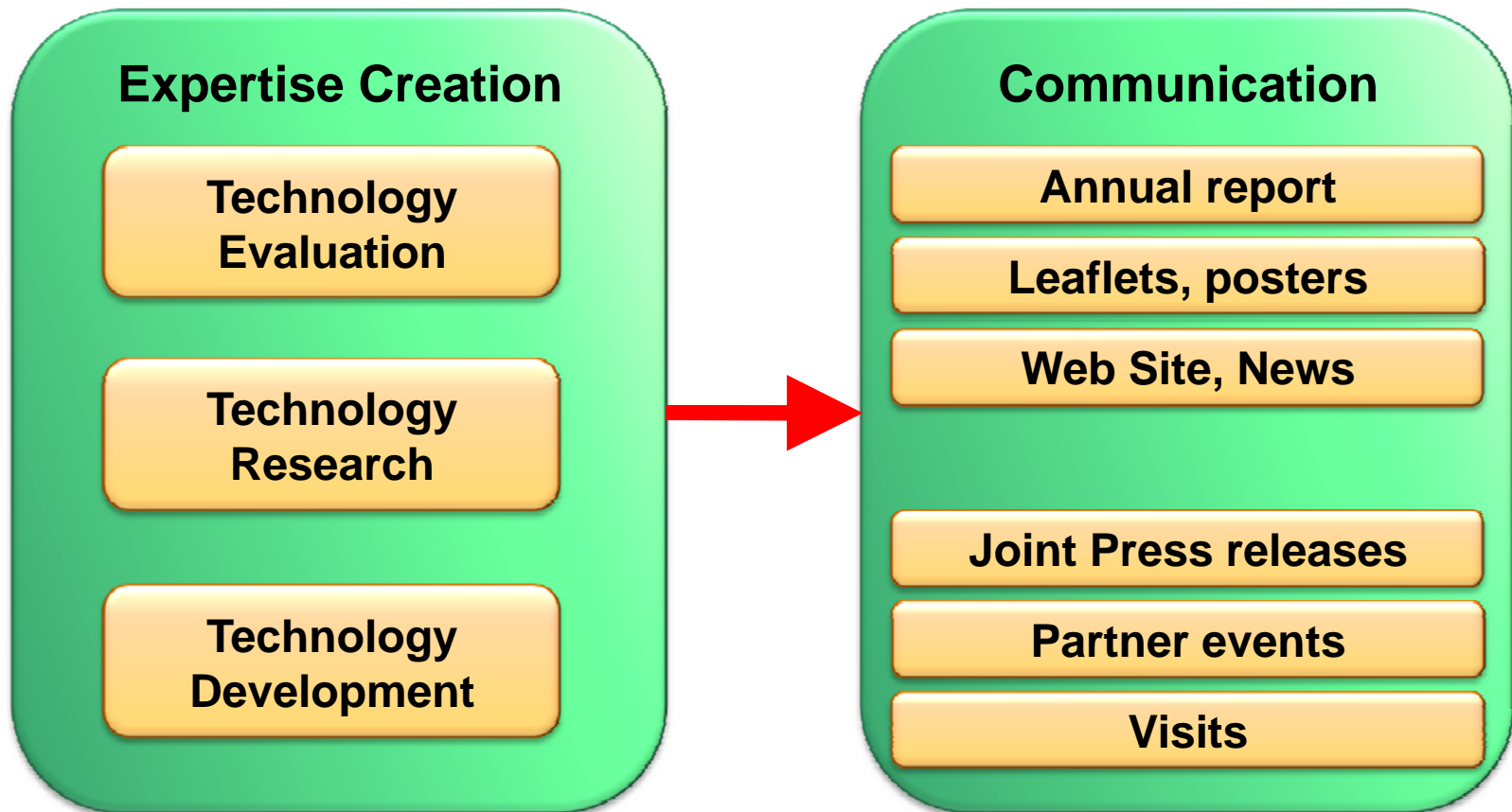
ICE

11 Groups involved

The three openlab dimensions



Strengthening **Communications** dimension



Communications officer

- Agreed in 2007, joined in July 2008
 - Under **openlab Manager** direct supervision
- **Funded**
 - partly by CERN
 - partly by openlab partners
- Assignment formed of **two parts**, based on the two funding sources

Communication

Annual report

Leaflets, posters

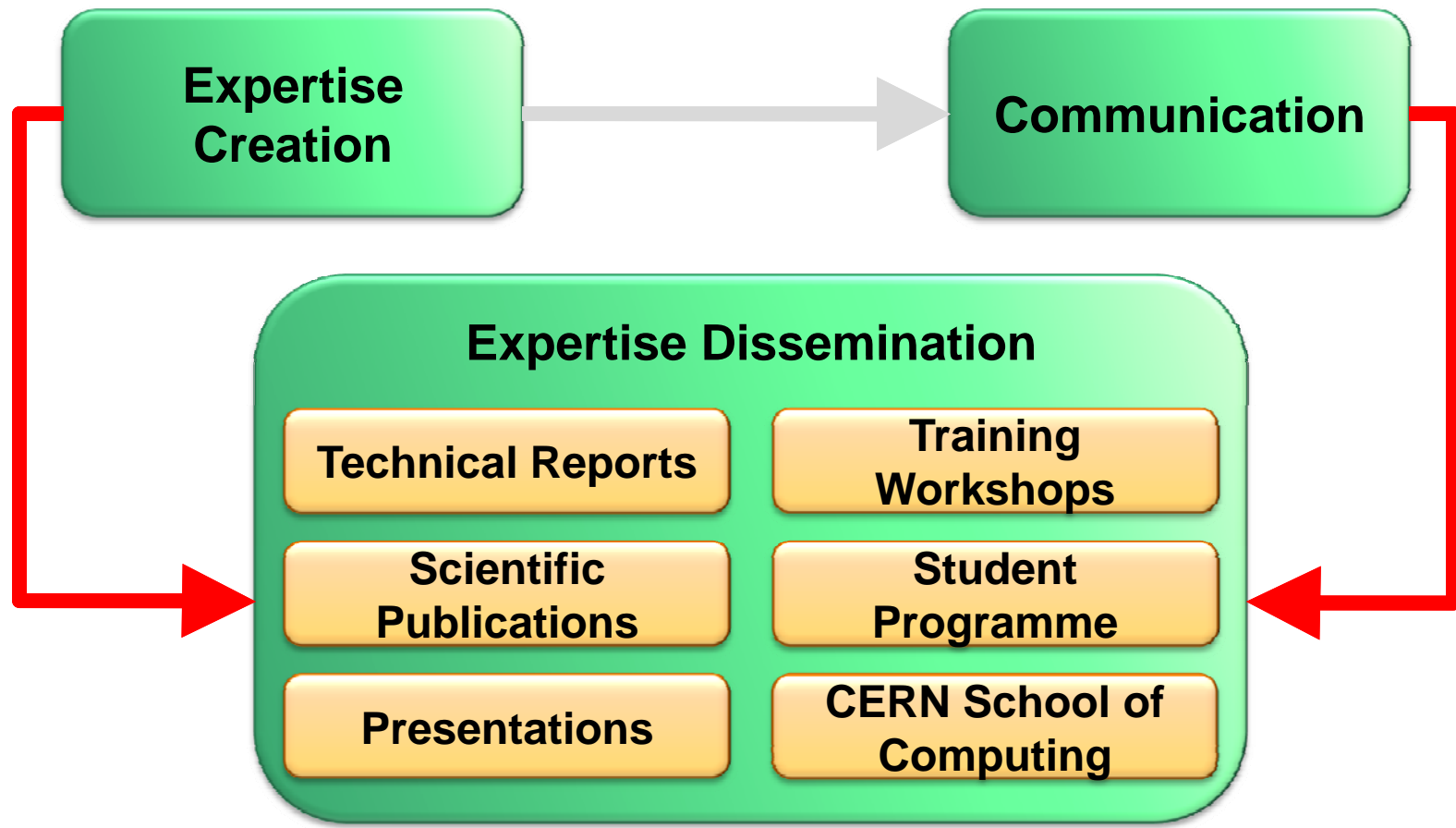
Web Site, News

Joint Press releases

Partner events

Visits

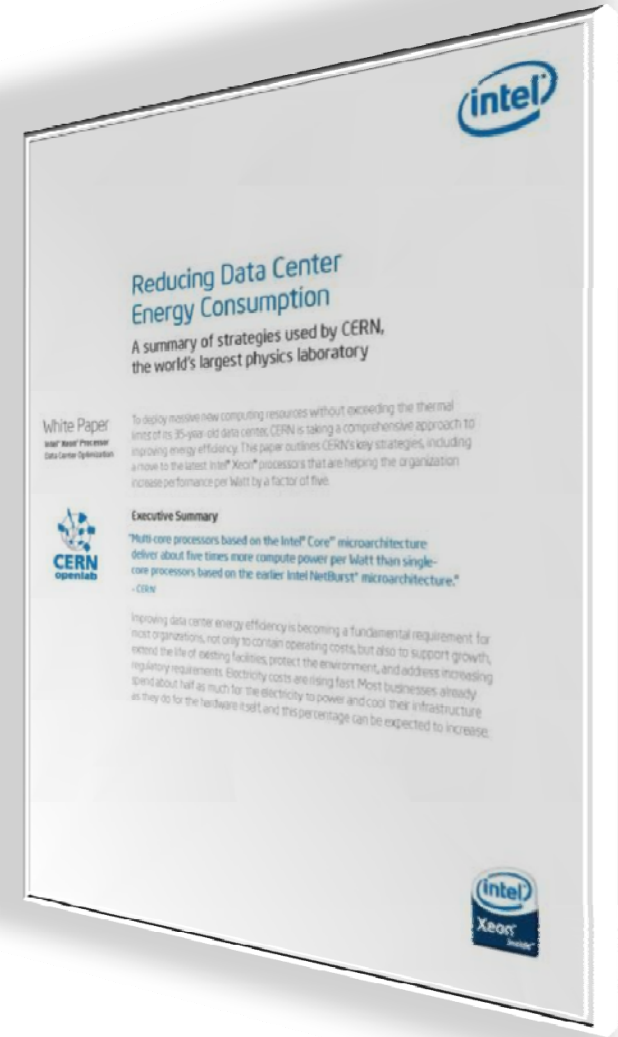
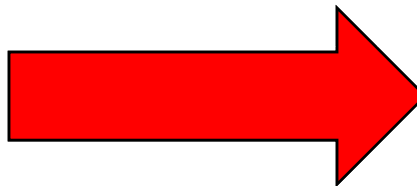
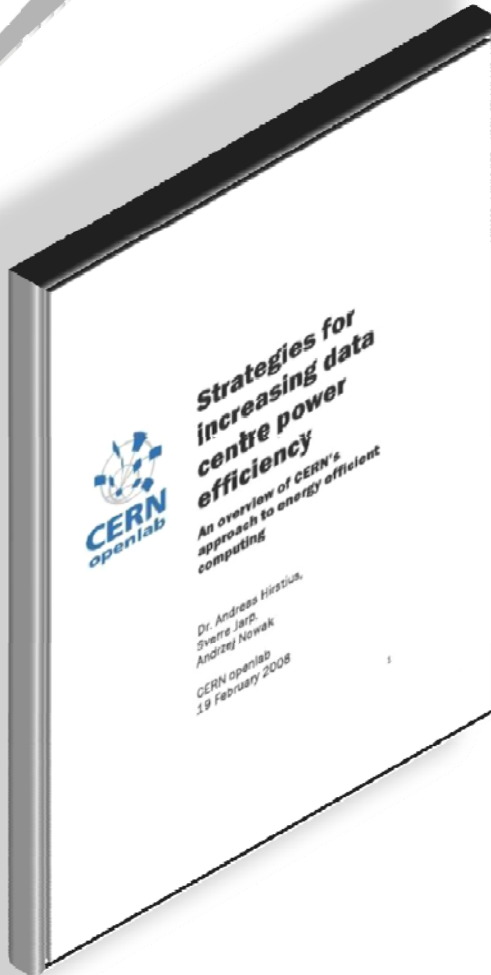
Strengthening **education** dimension





Strengthening **education** dimension

Reports





Strengthening **education** dimension

Training Workshops

Last year

- 4 openlab workshops
- 10 participations in seminars

Training Workshops

4 **Joint** CERN-Intel workshops last year

- Lecturers: **Mix of CERN and Intel experts**
- Advanced topics
 - Multi-threading and Parallelism
 - Computer Architecture and Performance Tuning
- More than **120** participants

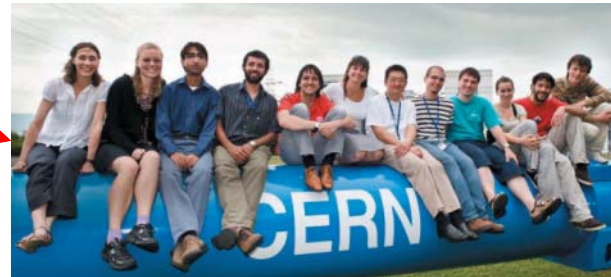
Strengthening **education** dimension

**Student
Programme**

Innovative **tripartite** funding programme

CERN

**openlab
Partners**



Universities

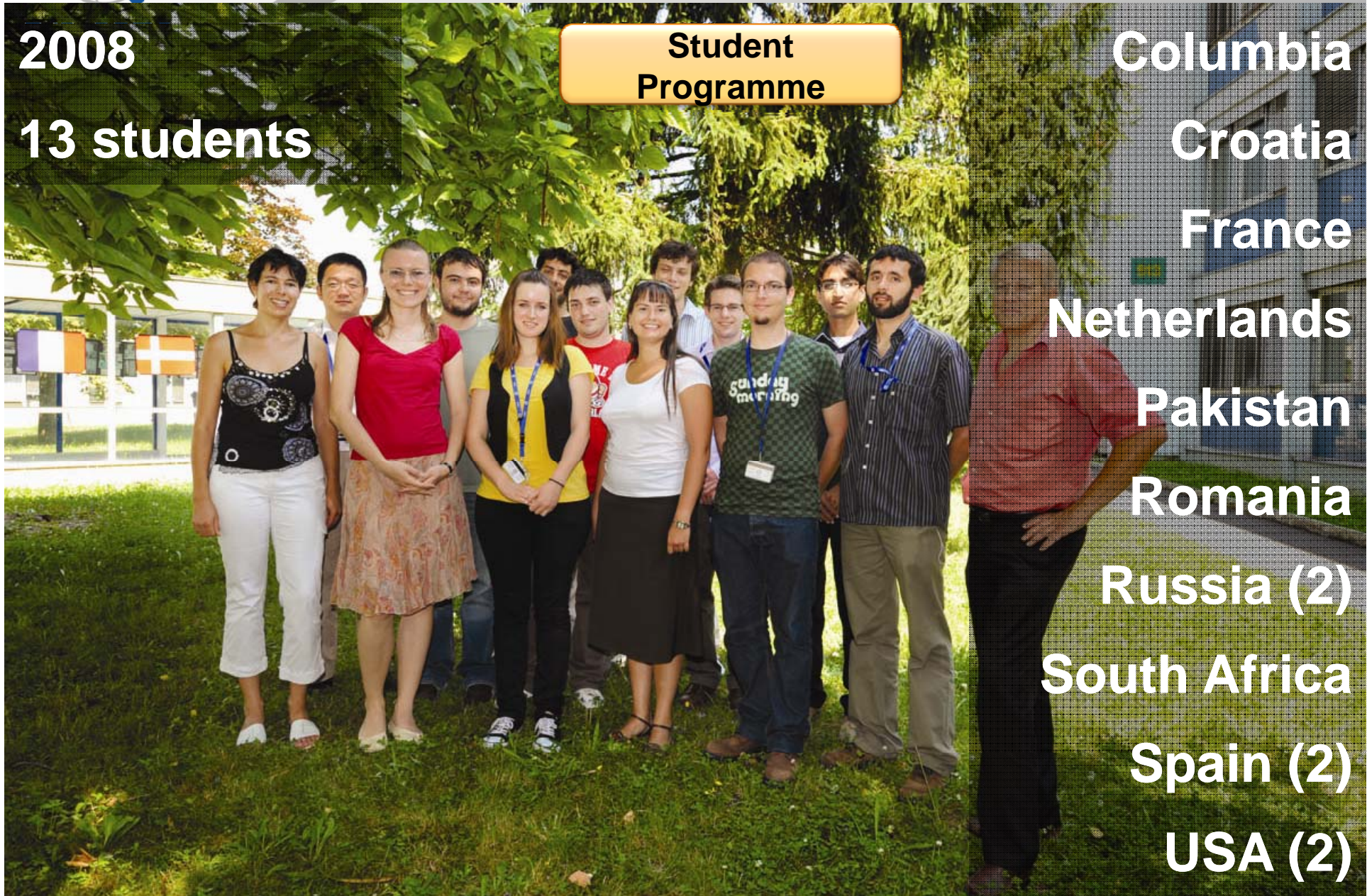


Strengthening **education** dimension

2008

13 students

**Student
Programme**



Columbia

Croatia

France

Netherlands

Pakistan

Romania

Russia (2)

South Africa

Spain (2)

USA (2)



Strengthening **education** dimension

Student Programme

CERN openlab student programme lecture series July-August 2008

- **Grid overview and gLite details** A. Unterkircher/CERN
- **Server Hardware** A. Hirstius/CERN
- **Virtualisation** H. Bjerke/CERN
- **Compilers** J. M. Dana/CERN
- **Creating Secure Software** S. Lopienski/ CERN
- **Computer Architecture** S. Jarp & A. Nowak/CERN
- **LCG** L. Poncet/CERN
- **Networking** R. Jurga/CERN
- **Oracle Database Architecture** B. Engsig/ORACLE



Strengthening **education** dimension

CERN School of
Computing

Exploiting **synergies** with **CERN School of Computing**

Göttingen, August 2009

- Class on

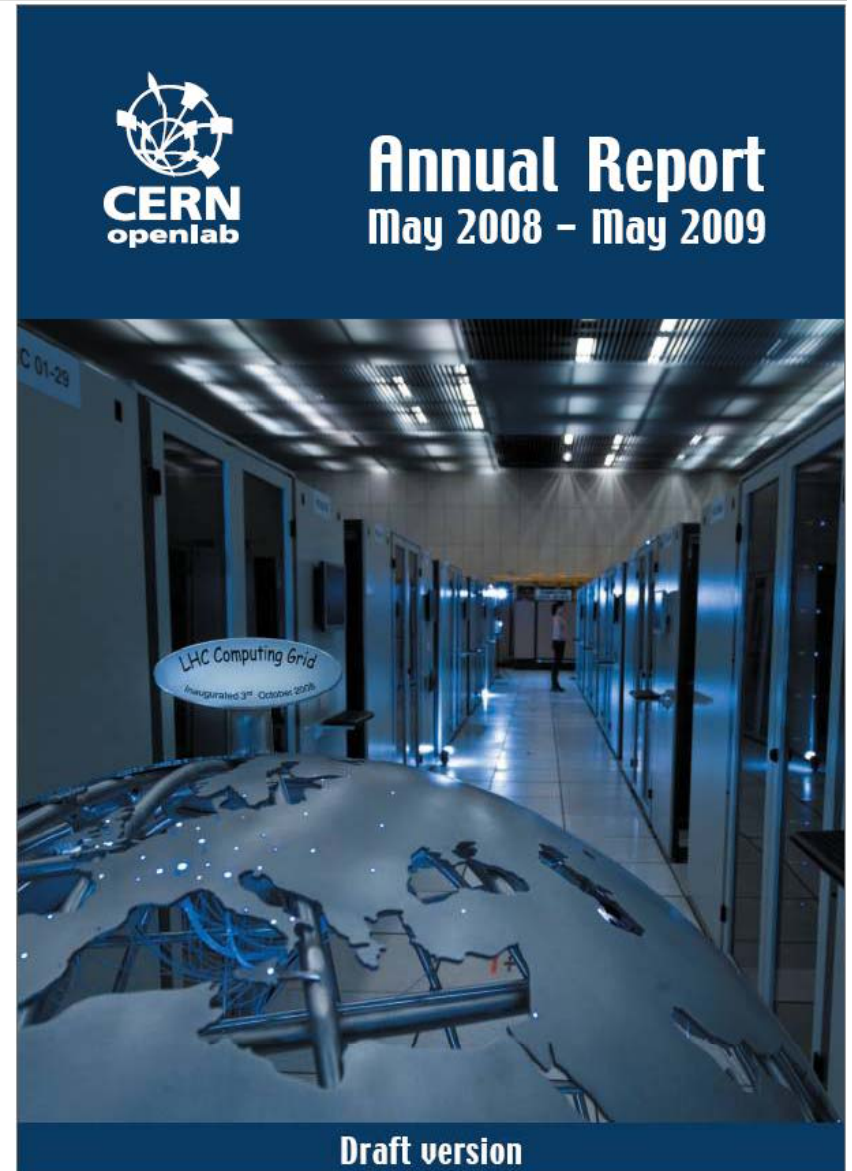
Computer Architecture and Performance Tuning

- By S. Jarp, A. Nowak, **openlab**



- Draft version available
- Comments welcome by **22nd of April**

To
melissa.le.jeune@cern.ch





Thank you